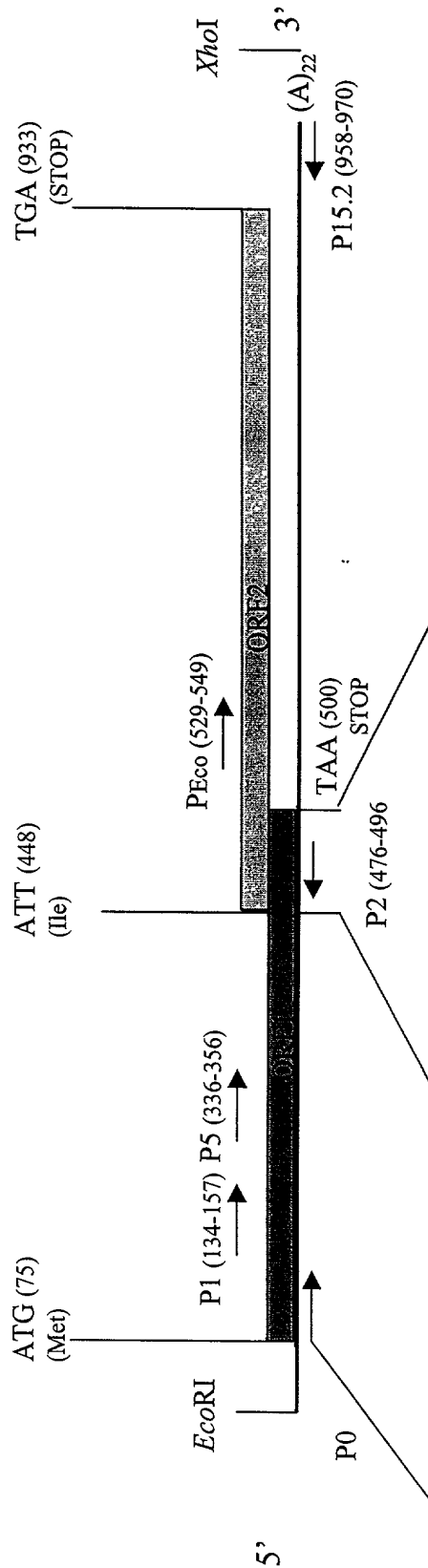


A



B

ORF2 I F V T L D L R A K E S I D S S K K A L R
5' GCAGAAATATTTTCGTACCTTAGATCTCTTAAGAGCCAAAGGAGTCAATAGACTCATCTAAGAAAGGCACTACGTA 3'
ORF1 A E Y F R H L R S L K S' Q G V N R L I stop

Figure 1

EcoRI
gaattcggcacgagccctgctatactgtgctttgcaactaactccatcgtaataattttaatataataataaa 72

M E S T S T T T N F V A E N R P T 17
 gg ATG GAG TCG ACA TCA ACA ACG ACC AAC TTT GTT GCC GAG AAC CGT CCC ACC 125

F G E T F D V M R E A L L R V K S S 35
 TTT GGT GAG ACG TTT GAT GTG ATG AGG GAA GCT TTG CTT CGT GTA AAG TCC TCT 179

E R L A M L R A L A G M C G H R V L 53
 GAA CGC TTG GCA ATG CTC AGA GCG CTT GCA GGA ATG TGC GGT CAC CGC GTC CTT 233

P G T G A S A I A A T V T P K G A S 71
 CCT GGC ACT GGT GCT TCT GCG ATA GCG GCA ACG GTA ACC CCA AAG GGG GCT TCG 287

M K L K P P R P Q S T K S P E L R E 89
 ATG AAG CTT AAA CCA CCG CGT CCG CAG TCA ACG AAG TCT CCG GAG CTC AGG GAG 341

L S R K I R E M N K T I S Q E S A R 107
 CTG TCA CGG AAG ATT CGC GAA ATG AAT AAG ACT ATA AGT CAG GAA TCA GCT CGG 395

V N H R L P E G H P L L E K R A E Y 125
 GTA AAC CAC CGG TTG CCG GAA GGC CAC CCT CTC TTA GAG AAG CGG GCA GAA **TAT** 449

F R H L R S L K S Q G V N R L I * 141
TTT CGT CAC CTT AGA TCT CTT AAG AGC CAA GGA GTC AAT AGA CTC ATC TAA G 501
 aaggcactacgtaggtaccgtgcctctatgaggaatacgaaccgactagtgacacaatagacgaccagttcta 573
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 gagaaatgcgagggcatgactcttcgagtcaaaaaaaaaaaaaaaaaaaaa**ctcgag** 1135
 XhoI

Figure 2

EcoRI

gaattcgggcacgagccctgctatactgtgctttgcaactaactccatcgtaataattttaatataataataaaa72

M E S T S T T T N F V A E N R P T 17
gg ATG GAG TCG ACA TCA ACA ACG ACC AAC TTT GTT GCC GAG AAC CGT CCC ACC 125

F G E T F D V M R E A L L R V K S S 35
TTT GGT GAG ACG TTT GAT GTG ATG AGG GAA GCT TTG CTT CGT GTA AAG TCC TCT 179

E R L A M L R A L A G M C G H R V L 53
GAA CGC TTG GCA ATG CTC AGA GCG CTT GCA GGA ATG TGC GGT CAC CGC GTC CTT 233

P G T G A S A I A A T V T P K G A S 71
CCT GGC ACT GGT GCT TCT GCG ATA GCG GCA ACG GTA ACC CCA AAG GGG GCT TCG 287

M K L K P P R P Q S T K S P E L R E 89
ATG AAG CTT AAA CCA CCG CGT CCG CAG TCA ACG AAG TCT CCG GAG CTC AGG GAG 341

L S R K I R E M N K T I S Q E S A R 107
CTG TCA CGG AAG ATT CGC GAA ATG AAT AAG ACT ATA AGT CAG GAA TCA GCT CGG 395

V N H R L P E G H P L L E K R A E Y 125
GTA AAC CAC CGG TTG CCG GAA GGC CAC CCT CTC TTA GAG AAG CGG GCA GAA TAT 449

F V T L D L L R A K E S I D S S K K 143
(T) TTC GTC ACC TTA GAT CTC TTA AGA GCC AAG GAG TCA ATA GAC TCA TCT AAG AAG 504

A L R R Y R A S M R N T N R L V H N 161
GCA CTA CGT AGG TAC CGT GCC TCT ATG AGG AAT ACG AAC CGA CTA GTG CAC AAT 558

R R P V L P K V E P D S N L P F G Q 179
AGA CGA CCA GTT CTA CCA AAG GTA GAG CCT GAC TCT AAT CTA CCA TTC GGC CAG 612

R R S R M T T W N L R P R R T G Y P 197
CGA CGG AGT CGC ATG ACA ACG TGG AAT CTT AGA CCA CGC CGG ACG GGT TAT CCG 666

S N G T L A V T E L L I S I Y R S N 215
TCA AAT GGT ACT TTG GCA GTT ACG GAA CTC CTG ATC TCG ATT TAT AGA TCA AAC 720

F Y T L K V V E E G R C T C C N T H 233
TTC TAC ACC TTG AAG GTG GTC GAG GAA GGG AGA TGT ACG TGC TGC AAC ACC CAT 774

K E Q A L L L L S G Y L Q L Y R A L 251
AAG GAG CAA GCT TTG CTA CTC CTA TCC GGT TAC CTC CAG CTA TAT CGT GCA CTG 828

H S V G R S V F V E Y C K T R I C V 269
CAC TCA GTT GGA AGG TCT GTA TTC GTA GAA TAC TGC AAA ACC AGG ATA TGC GTC 882

E A R L T G L R P R V T L T G C * 285
GAG GCA CGC CTC ACC GGA CTA CGT CCG AGG GTG ACC CTA ACG GGC TGC TGA A 934
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gtagggtttgccctactagagtacttgcgacgccgaagcgctccgttcaaaagaacgcgcaagccctagcag 1078
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XhoI

Figure 3

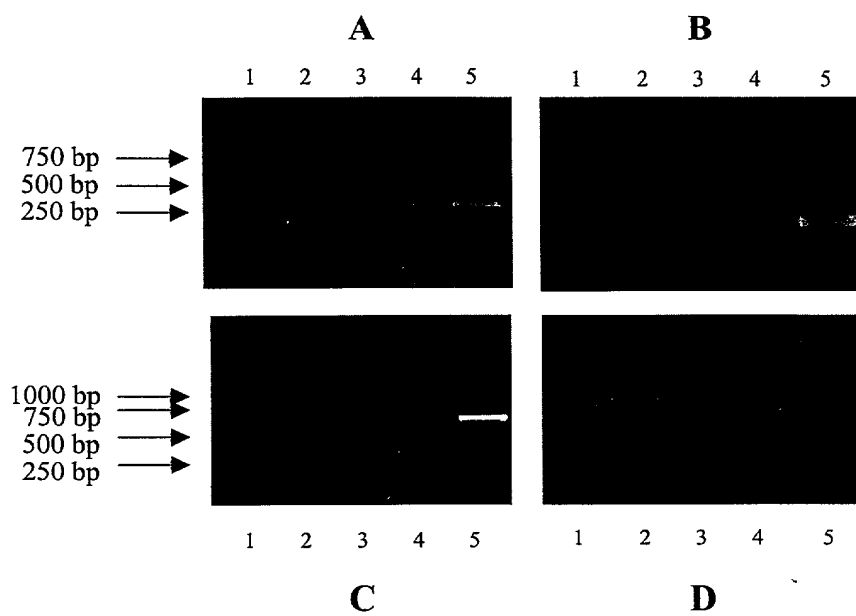


Figure 4

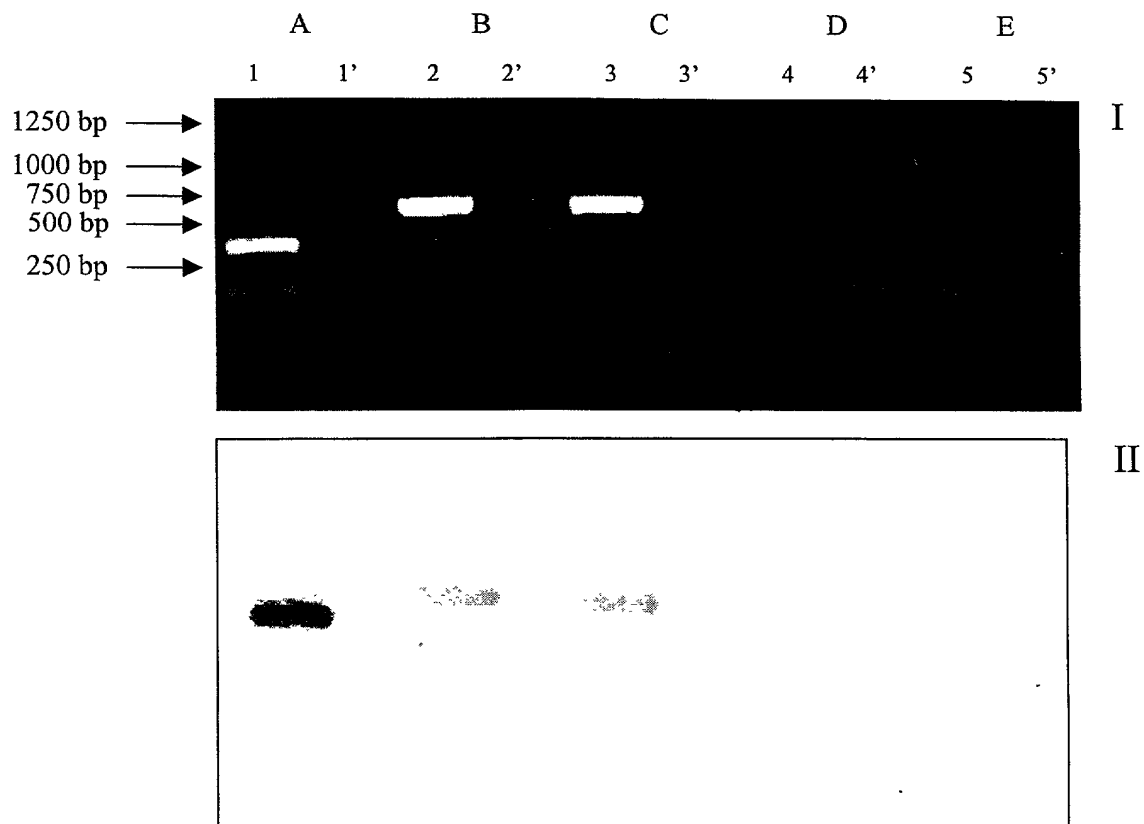


Figure 5

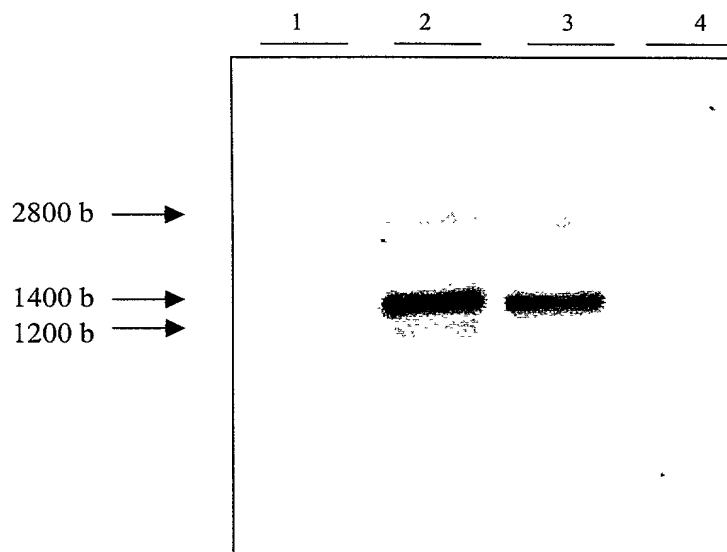


Figure 6

208220" E/S/800T

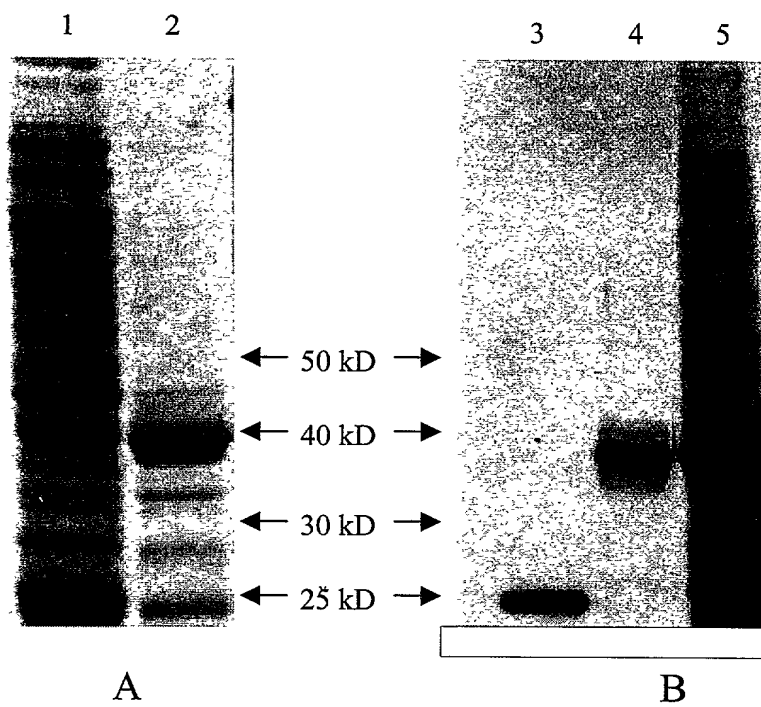


Figure 7

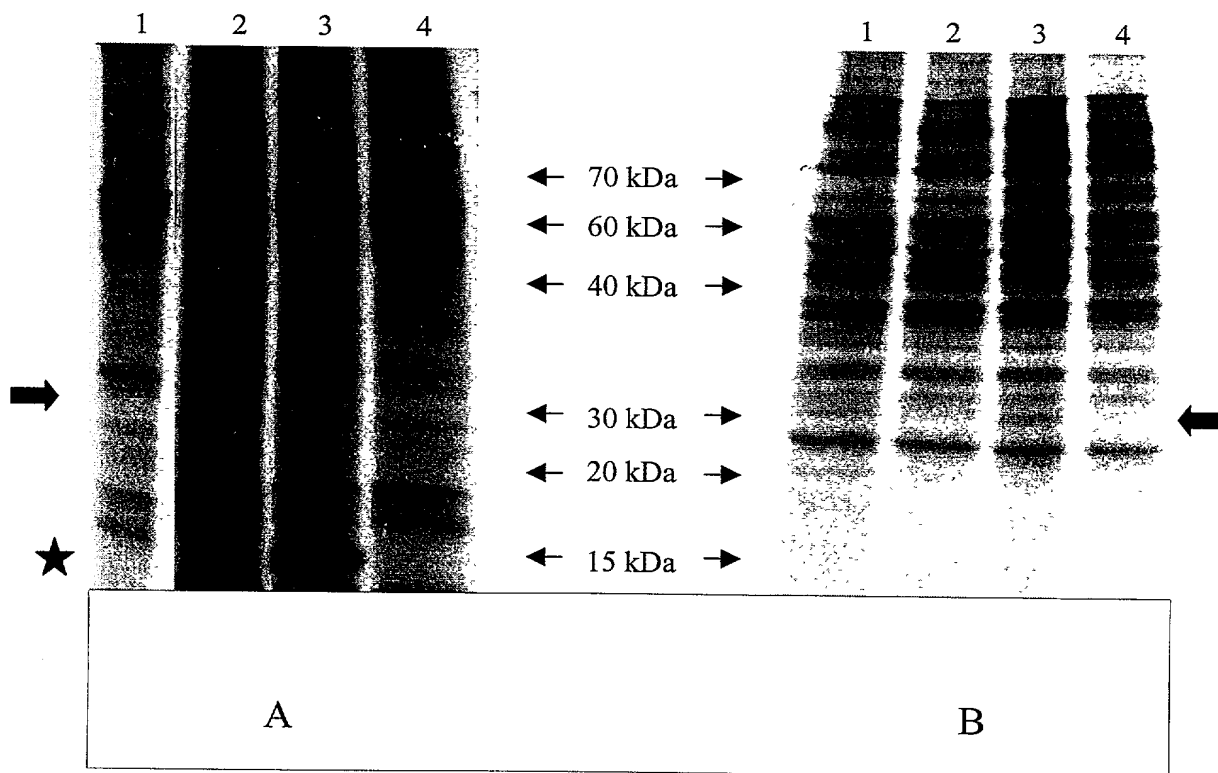


Figure 8

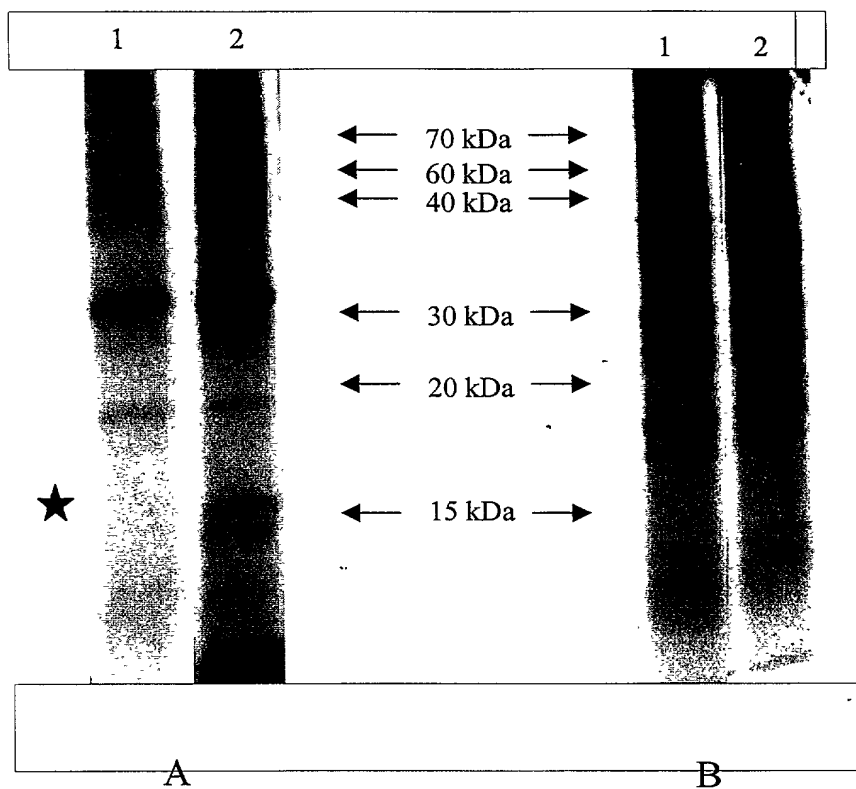


Figure 9.

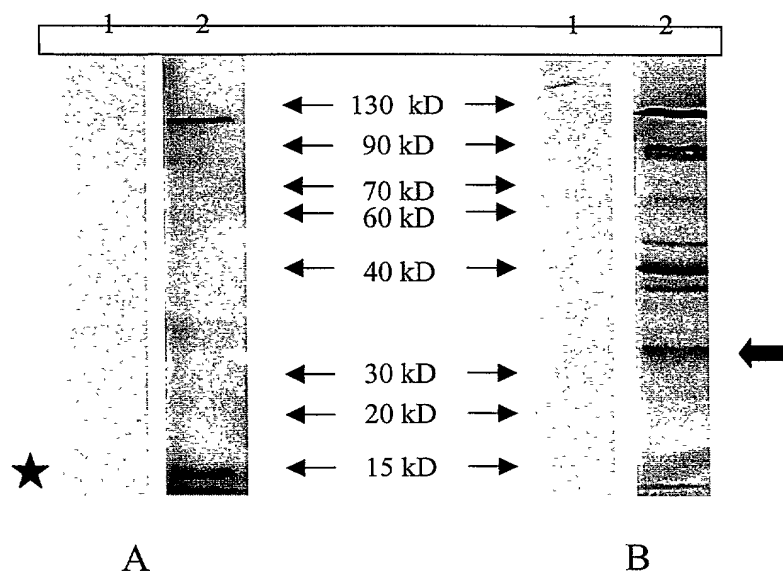


Figure 10

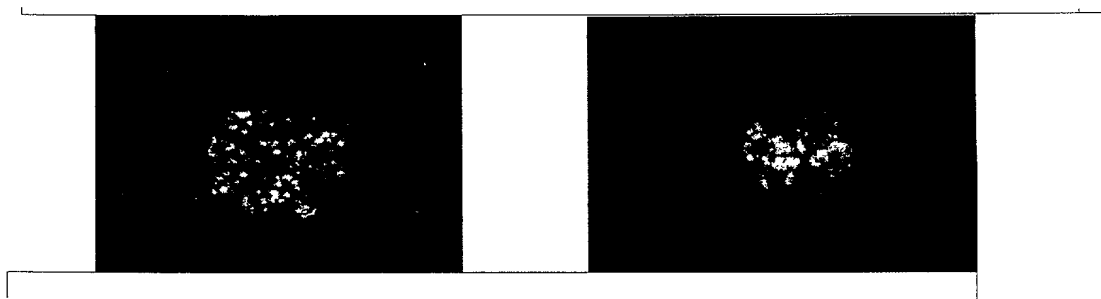


Figure 11

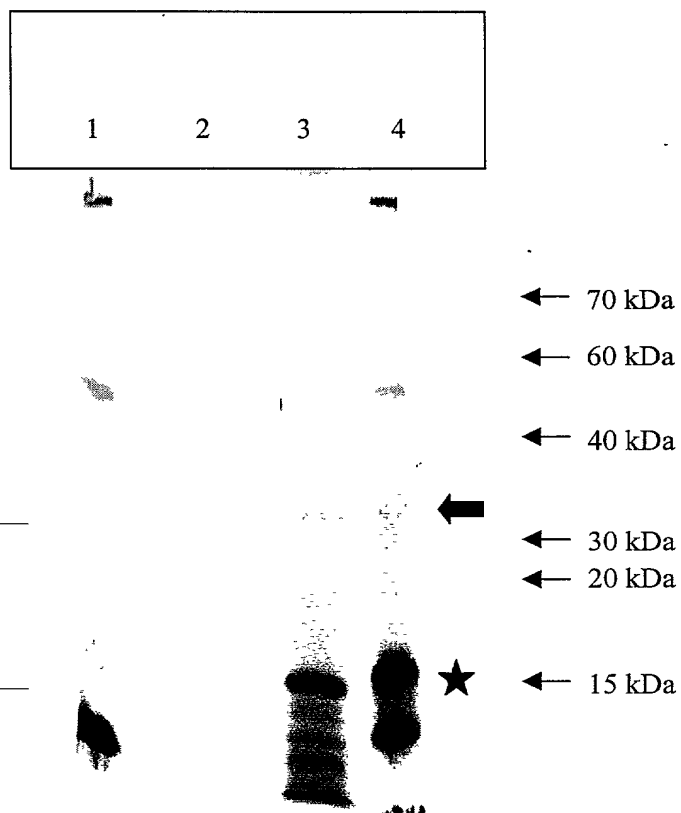


Figure 12

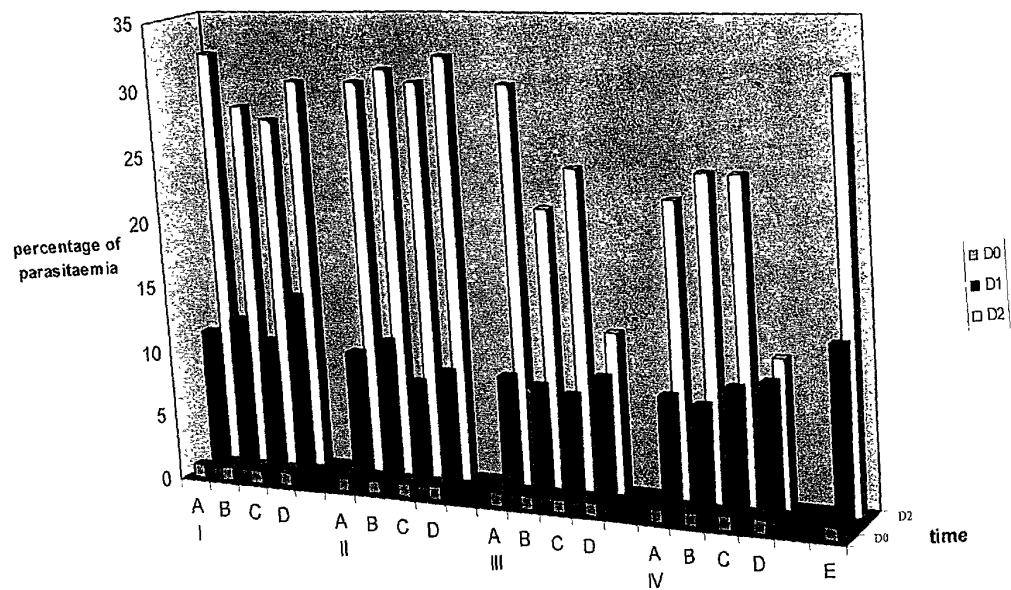


Figure 13

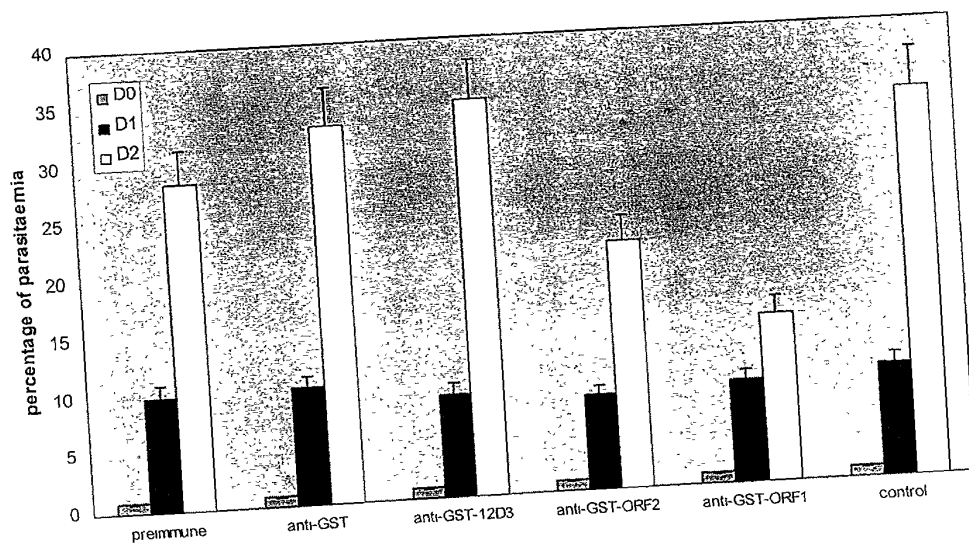


Figure 14

20220415001

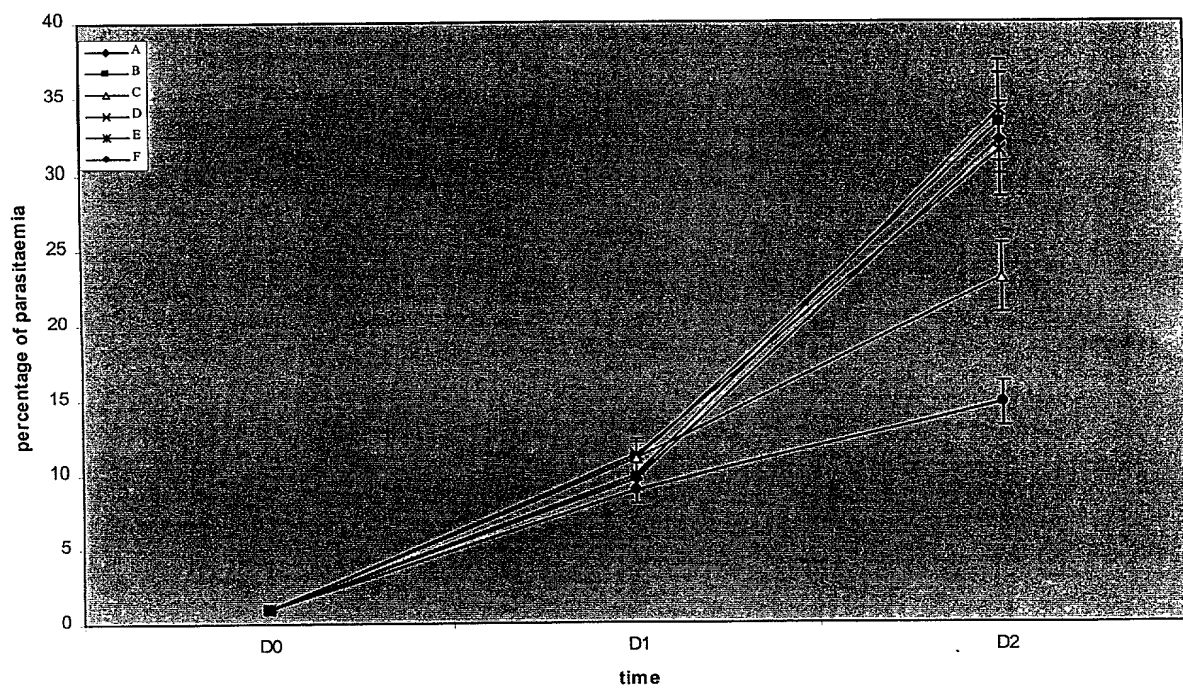


Figure 16

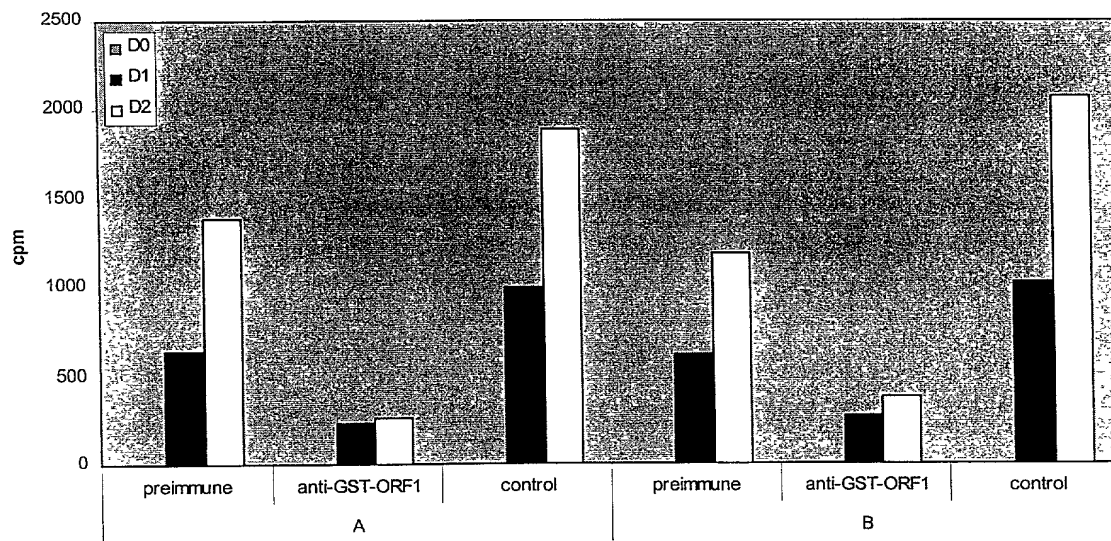
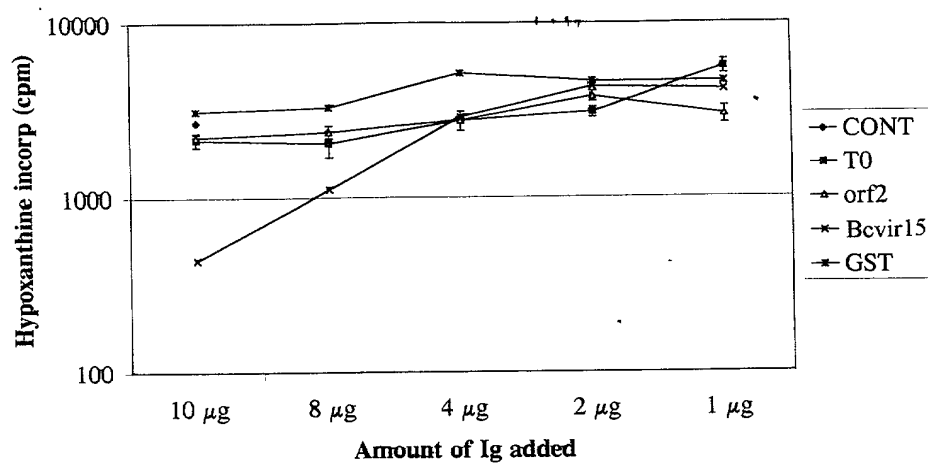
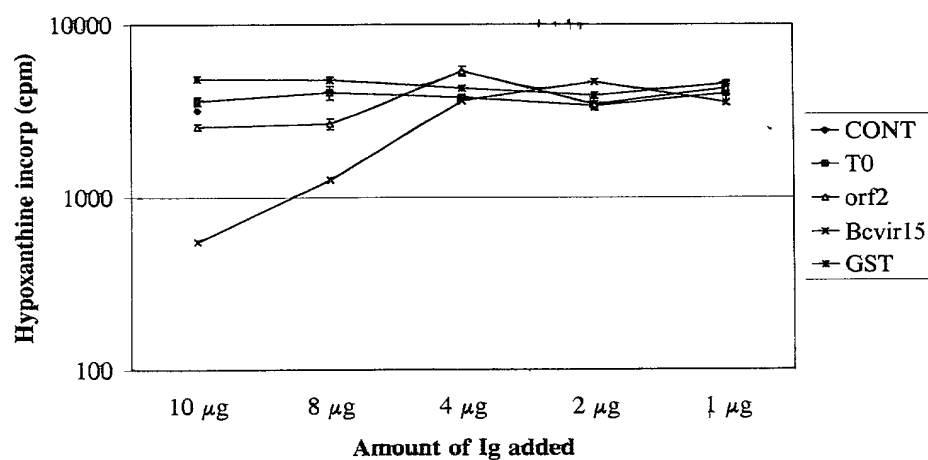


Figure 15

Inhibition *in vitro* *B. canis* A



Inhibition *in vitro* *B. canis* B



Inhibition *in vitro* *B. rossi* M

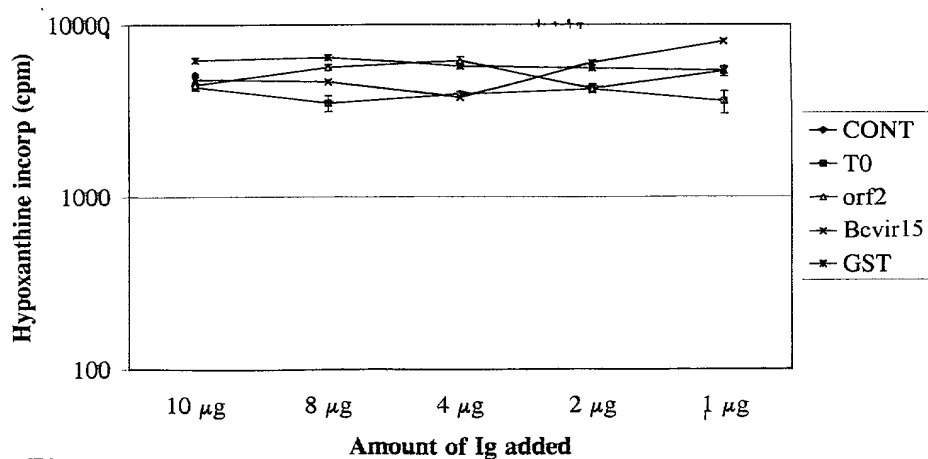


Figure 17